

AN ISO 9001 : 2008 COMPANY & NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/07/2017

Lab ID : CP-2018-12-27-124
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency : Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference : EE/DD/LOA/ /2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-07-17
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (kN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	Drain Concrete	M20	13/07/2017	20/07/2017	150.54 X 150.44 X 150.35	22647	8.312	394.1	17.4	17.6
2	Drain Concrete	M20	13/07/2017	20/07/2017	150.56 X 150.46 X 150.33	22653	8.331	398.7	17.6	
3	Drain Concrete	M20	13/07/2017	20/07/2017	150.52 X 150.48 X 150.37	22650	8.345	400.9	17.7	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

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****End of Report****

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Handwritten signature of R. Karthik Rechan
R. KARTHIK RECHAN
Authorized Signatory
Quality Manager



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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 10/08/2017

Lab ID : CP-2018-12-27-124
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency : Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference : EE/DD/LOA/ /2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 15-07-17
Customer ID : M20 Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/08/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	13/07/2017	10/08/2017	150.36 X 150.54 X 150.45	22635	8.312	538.7	23.8	23.8
2	M20 Concrete	M20	13/07/2017	10/08/2017	150.37 X 150.56 X 150.48	22640	8.331	541.1	23.9	
3	M20 Concrete	M20	13/07/2017	10/08/2017	150.33 X 150.54 X 150.48	22631	8.345	536.3	23.7	

Note:

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ಸಹಾಯಕ ಕಾರ್ಯದರ್ಶಿ ಅಭಿಯಂತರರು
ಶಿಕ್ಷಣ, ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ, ಪಾಲಿಕೆ
ಬೈಪಾಸ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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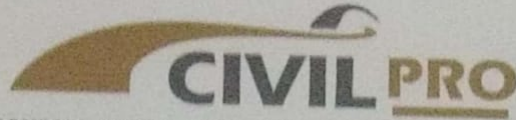
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager



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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CERAMIC TILES

Lab ID : CP-2018-12-27-124 Date: 10-07-17
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency : Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.
Customer's Reference : EE/DD/LOA/ /2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-07-17
Sample ID No : 2018-11-22-53/05
Sample Type/ Size : Ceramic tiles (300X300)mm
Reference to BIS codes : IS 13630 (part 1) : 2006, IS 15622:2006
Date of test : 06-07-17

MEASUREMENTS OF LENGTH, WIDTH AND THICKNESS

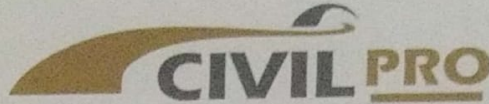
Number Of Specimen	Length measured at position 5mm from the corner		Breadth measured at position 5mm from the corner		Thickness measured at thickest part, 4 diagonal segment			
	1	2	1	2	1	2	3	4
1	300	300	300	300	12.04	12.01	12.08	12.04
2	300	300	300	300	12.01	12.03	12.01	12.01
3	300	300	300	300	12.03	12.01	12.03	12.03
4	300	300	300	300	12.06	12.05	12.08	12.06
5	300	300	300	300	12.08	12.01	12.05	12.08
6	300	300	300	300	12.03	12.07	12.03	12.07
7	300	300	300	300	12.01	12.01	12.01	12.01
8	300	300	300	300	12.02	12.01	12.04	12.01
9	300	300	300	300	12.04	12.04	12.02	12.04
10	300	300	300	300	12.04	12.01	12.05	12.04
Average	300		300		12.04			

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TEST REPORT OF CERAMIC TILES

WATER ABSORPTION

Sl.no	Weight of oven dry sample	Saturated weight of sample	Water absorption by mass	Average value of water absorption
1	1202	1246	3.66	3.14
2	1211	1245	2.81	
3	1254	1294	3.19	
4	1204	1252	3.99	
5	1231	1256	2.03	

MODULUS OF RUPTURE AND BREAKING STRENGTH

Sl.No

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average
	L	B	T	(N/mm ²)	(N/mm ²)
1	400	400	8.02	12.5	12.36
2	400	400	8.03	12.4	
3	401	400	8.01	12.9	
4	400	400	8.07	11.9	
5	400	400	8.05	12.1	

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KARTHIK RECHAN

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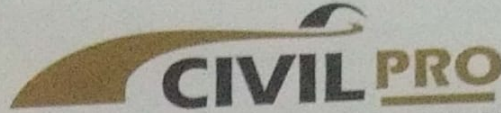
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

Date: 14-07-17

Lab ID : CP-2018-12-27-124
Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address : Shettyhalli Sub Division, BBMP, Bangalore.
Project Name : Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13
Agency : Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira, Bagalagunte Bangalore-73.
Customer's Reference : EE/DD/LOA/ /2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 06-07-17
Sample Type /Size : CC Kerb Stone/ 450*165*400mm
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test : 10/07/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm ²)	(N/mm ²)	(N/mm ²)
1	A	100.02	165.51	2.864	7856	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

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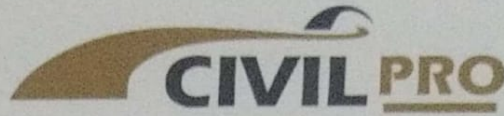


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Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Providina and Laying of Tiles for Pathway and Laying of Kerb Stones to Pathway to Indira Canteen at Pipeline Road in Ward No.13

Agency : Sri.B.J Kumar # 01, Shreenilaya Behind Rangamandira,Bagalagunte Bangalore-73.

Customer's Reference : EE/DD/LOA/ /2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 15-07-17

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm ²)	Average Compressive Strength (N/mm ²)
1	M20 Concrete	M20	13/07/2017	20/07/2017	150.44 X 150.58 X 150.41	22653	8.312	389.6	17.2	17.4
2	M20 Concrete	M20	13/07/2017	20/07/2017	150.41 X 150.56 X 150.47	22646	8.331	398.6	17.6	
3	M20 Concrete	M20	13/07/2017	20/07/2017	150.42 X 150.54 X 150.35	22644	8.345	394.0	17.4	

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